

Title (en)

COLOR FILTER AND MANUFACTURING METHOD THEREOF, DISPLAY PANEL, DISPLAY DEVICE AND DRIVE METHOD THEREOF

Title (de)

FARBFILTER UND HERSTELLUNGSVERFAHREN DAFÜR, ANZEIGETAFEL, ANZEIGEVORRICHTUNG UND ANSTEUERUNGSVERFAHREN DAFÜR

Title (fr)

FILTRE DE COULEUR ET SON PROCÉDÉ DE FABRICATION, PANNEAU D'AFFICHAGE, DISPOSITIF D'AFFICHAGE, ET PROCÉDÉ D'ENTRAÎNEMENT DE CE DERNIER

Publication

**EP 3199988 A4 20180613 (EN)**

Application

**EP 15778592 A 20150112**

Priority

- CN 201410509950 A 20140928
- CN 2015070532 W 20150112

Abstract (en)

[origin: US2016260371A1] A color filter and a manufacturing method, a display panel, and a display device and a driving method are provided. The color filter includes a plurality of color resists which include red resists (R), green resists (G) and blue resists (B); and the color filter includes a plurality of pixel regions arranged in a matrix, each pixel region comprises a red sub-pixel region comprising an even number of red sub-sub-pixel regions, a green sub-pixel region including an even number of green sub-sub-pixel regions, a blue sub-pixel region including an even number of blue sub-sub-pixel regions, each red sub-sub-pixel region is provided with a red resist, each green sub-sub-pixel region is provided with a green resist, and each blue sub-sub-pixel region is provided with a blue resist. The manufacturing precision and alignment accuracy of a mask for this color filter is lower than a current technology and reduce the manufacturing difficulty.

IPC 8 full level

**G02B 5/23** (2006.01); **G02B 30/30** (2020.01)

CPC (source: CN EP US)

**G02B 5/201** (2013.01 - CN EP US); **G02B 5/23** (2013.01 - EP US); **G02B 30/27** (2020.01 - US); **G02B 30/30** (2020.01 - CN EP); **G02F 1/133512** (2013.01 - CN); **G02F 1/133514** (2013.01 - CN); **G02F 1/133516** (2013.01 - CN); **G09G 3/003** (2013.01 - EP US); **G09G 3/2003** (2013.01 - US); **G09G 3/2074** (2013.01 - CN); **G09G 5/14** (2013.01 - US); **H04N 13/31** (2018.04 - EP US); **H04N 13/324** (2018.04 - EP US); **G09G 2300/0443** (2013.01 - US); **G09G 2300/0452** (2013.01 - EP US)

Citation (search report)

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- [X] US 6392690 B1 20020521 - FUJII AKIYOSHI [JP], et al
- [X] US 2008266471 A1 20081030 - HISATAKE YUZO [JP]
- See references of WO 2016045257A1

Designated contracting state (EPC)

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**US 10134320 B2 20181120; US 2016260371 A1 20160908**; CN 104297832 A 20150121; CN 104297832 B 20170215; EP 3199988 A1 20170802; EP 3199988 A4 20180613; EP 3199988 B1 20210505; WO 2016045257 A1 20160331

DOCDB simple family (application)

**US 201514787121 A 20150112**; CN 201410509950 A 20140928; CN 2015070532 W 20150112; EP 15778592 A 20150112